INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Warning

Please read carefully before proceeding with installation. Your failure to follow any attached instructions or operating parameters may lead to the product's failure.

Save manual for future reference

Model: ZRO-PURE

Refer to enclosed warranty for operating parameters to ensure proper use with your water supply.

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Thank you for your purchase of a state of the art Watts Premier Reverse Osmosis (RO) water treatment system. Water quality concerns are becoming more of a focus for the public. You may have heard about contaminants in the drinking water such as Arsenic, Perchlorate, Chromium, Cryptosporidium or Giardia. There may also be some local water issues such as high levels of Lead and Copper. This Watts Premier water treatment system has been designed and tested to provide you with high quality drinking water for years to come. The following is a brief overview of the system.

Your Reverse Osmosis System:

Osmosis is the process of water passing through a semi permeable membrane in order to balance the concentration of contaminants on each side of the membrane. A semi permeable membrane is a barrier that will pass only certain particles like clean drinking water, but not other particles like arsenic and lead.

Reverse osmosis uses a semi permeable membrane; however, by applying pressure across the membrane, it concentrates contaminants (like a strainer) on one side of the membrane, producing crystal clear water on the other. This is why RO systems produce both clean drinking water and rinse water that is flushed from the system. This reverse osmosis system also utilizes carbon block filtration technology, and can therefore provide a higher quality drinking water than carbon filtration systems alone.

Your system is a four stage RO which is based upon separate treatment segments within the one complete water filtration system. These stages are as follows:

Stage 1 – Sediment filter, recommended change 6 months.

The first stage of your RO system is a five micron sediment filter that traps sediment and other particulate matter like dirt, silt and rust which affect the taste and appearance of your water.

Stage 2 – Carbon filter, recommended change 6 months.

The second stage contains a 5 micron carbon block filter. This helps ensure that chlorine and other materials that cause bad taste and odor are greatly reduced.

Stage 3- Membrane, recommended change 2-5 years.

Stage three is the heart of the reverse osmosis system, the 50GPD (Gallons Per Day) RO membrane. This semi permeable membrane will effectively remove TDS, Sodium and a wide range of contaminants such as Percholate, Chromium, Arsenic, Copper, Lead as well as Cysts, such as Giardia and Cryptosporidium. Because the process of extracting this high quality drinking water takes time, your RO water treatment system is equipped with a storage tank.

Stage 4- Carbon post filter, recommend change 12 months.

The final stage is a high quality carbon filter. Drinking water enters this filter after the water storage tank and it is used as a final polishing filter.

Note: Filter & Membrane life may vary based upon local water conditions and/or use patterns.

System Maintenance

Just because you can not taste it, does not mean that it is not there. Contaminants such as Lead, Chromium and Arsenic are undetectable to the taste. Additionally, over time if you do not replace the filter elements, other bad tastes and odors will be apparent in your drinking water.

It is important to change out your filters at the recommended intervals as indicated in this system manual. When replacing the filter elements, pay special attention to any cleaning instructions. Should you have any further questions please refer to our web site at **www.wattspremier.com** or call our customer service department at **1-800-752-5582.**

With proper installation and maintenance, this system will provide you with high quality water for years to come.
All of Premier's water enhancement products are rigorously tested by independent laboratories for safety and reliability.
If you have any questions or concerns, please contact our customer service department at 1-800-752-5582
(outside USA 480-675-7995) or refer to our on-line troubleshooting guide at www.wattspremier.com.

*** Before installation, please take a moment to fill out the warranty card on page 21.*

Table of Contents

Operational Parameters 4
Contents of Reverse Osmosis System 4

Installation & Startup

Tools Recommended For Installation 4
Plumbing diagram and parts list 5
Drill a Hole for the Reverse Osmosis Faucet 6
How to use Quick Connect Fittings on Your RO System 6
Faucet Installation 7
Connecting to the Faucet 7
Adapt-a-Valve Installation 8
Reverse Osmosis Module Mounting 8
Connect the Green and Red Tubing 8
Green Tube Connection (From Adapt-A-Valve to Pump) 9
Green Tube Connection (From RO System to ESOV) 9
Blue Tube Connection (From RO System to ESOV) 9
Blue Tube Connection (ESOV) 9
Tank Ball Valve Installation 10
Blue Tube Connection (From The ESOV to TANK) 10
Start up Instructions 11

Maintenance & Troubleshooting

Changing The Filter Cartridges 12
Membrane Replacement 12
Annual Sanitization 13
Procedure for Extended Non-Use (More than 2 months) 13
Check Air Pressure in the Tank 14
Troubleshooting 15

Product Technical & Warranty Information

Performance Data Sheet 16
Arsenic Fact Sheet 17
Nitrate / Nitrite Test Instructions 18
Other Products from Watts Premier 19-20
Warranty Registration 21-22
Service Record 23
Limited Warranty 24

Operational Parameters

Installation must comply with State and local plumbing regulations. Do not use with water that is micro biologically unsafe or of unknown quality without adequate disinfection before or after the system. System is intended to be installed using the cold water supply only.

Operating Temperatures:	Maximum 100°F (37.8°C)	Minimum 40°F (4.4°C)
Operating Pressure:	Maximum 100 psi (7.0 kg/cm^2)	Minimum 40 psi (2.80 kg/cm^2)
pH Parameters:	Maximum 11	Minimum 2
Iron:	Maximum 0.2 ppm	
TDS (Total Dissolved Solids)	< 1800 ppm	
Turbidity	< 5 NTU	
Hardness	Maximum 10 Grains Per Gallon *	

Hardness: Recommended hardness not to exceed 10 grains per gallon, or 170 parts per million.

***** System will operate with hardness over 10 grains but the membrane life may be shortened. Addition of a water softener may lengthen the membrane life.

Water Pressure: The operating water pressure in your home should be tested over a 24 hour period to attain the maximum pressure. If the incoming water pressure is above 100 psi then a water pressure regulator is required. A booster pump is needed for incoming water pressure under 40psi.

Copper Tube: Reverse Osmosis water should not be run through copper tube as the purity of the water will leach copper causing an objectional taste in water and pin holes may form in the tube.

*** Note: RO unit must be installed a minimum of 25 Pipe feet from water heater ***

Contents of Reverse Osmosis (RO) System

1 Tank - White
1 RO Module (complete with filters)
1 Pump/ESOV Assembly
1 Transformer
1 Parts Bag
1 Faucet Bag
1 Manual

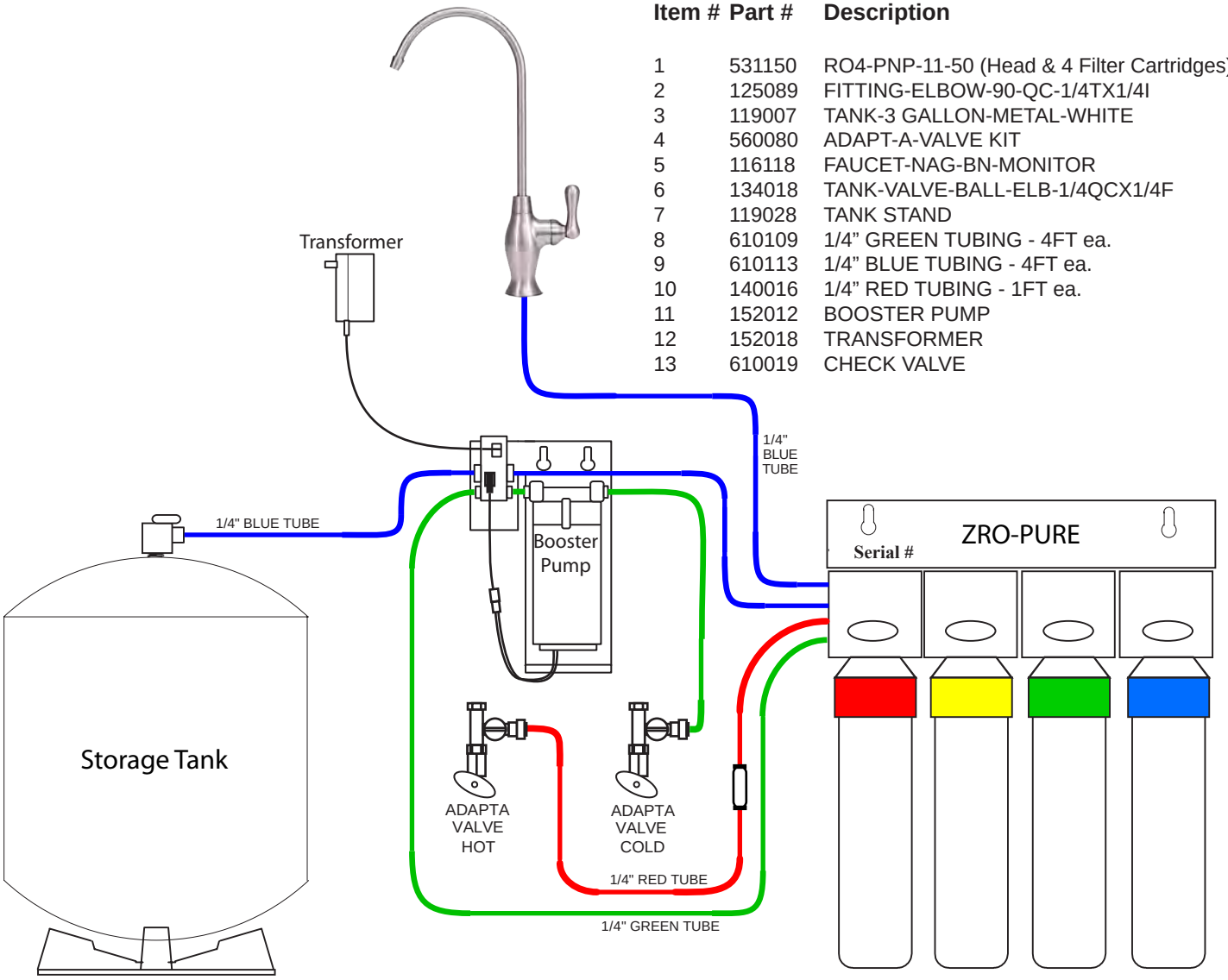
If any of the items are missing please contact Premier prior to installing.

INSTALLATION & STARTUP

Tools Recommended For Installation

√ 1 1/4" Diamond Tipped Hole Saw bit for faucet opening (Counter Tops/Porcelain & Stainless Sinks)
√ 1 1/4" Adjustable Wrench
√ 1/2" Open End Wrench
√ 5/8" Open End Wrench
√ Electric Drill
√ 1/8" diamond tip bit, pilot hole
√ 1/4" drain saddle hole
√ Phillips bit for electric drill
√ Needle Nose Pliers
√ Adjustable Pliers
√ Sharp Knife
√ Phillips Screw Driver

Plumbing Diagram and Parts List



Item #	Part #	Description
1	531150	RO4-PNP-11-50 (Head & 4 Filter Cartridges)
2	125089	FITTING-ELBOW-90-QC-1/4TX1/4I
3	119007	TANK-3 GALLON-METAL-WHITE
4	560080	ADAPT-A-VALVE KIT
5	116118	FAUCET-NAG-BN-MONITOR
6	134018	TANK-VALVE-BALL-ELB-1/4QCX1/4F
7	119028	TANK STAND
8	610109	1/4" GREEN TUBING - 4FT ea.
9	610113	1/4" BLUE TUBING - 4FT ea.
10	140016	1/4" RED TUBING - 1FT ea.
11	152012	BOOSTER PUMP
12	152018	TRANSFORMER
13	610019	CHECK VALVE

IMPORTANT NOTICE

Not recommended for use on homes equipped with tankless water heaters. Contact Watts Premier for specific details regarding this unit and tankless water heaters.
System was tested in a laboratory setting utilizing a hot water heater of 40 gallons set at 120º F. Performance may vary if your heater is smaller than 40 gallons or set above 120º F, contact the manufacturer for additional details.
System should not be used on homes equipped with a backflow prevention on the hot water heater.
This device is 100% efficient, as no water is lost to drain in the production of the RO water.

Drill a Hole for the Reverse Osmosis Faucet

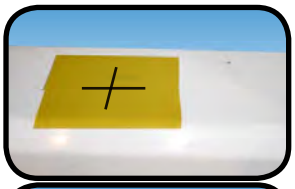
Marble Counter-top

We recommend contacting a qualified contractor for drilling a hole in a marble counter-top.

Counter Top / Porcelain & Stainless Steel Sink

Note: ***Most sinks are pre drilled with 1 ¼" diameter hole that you can use for your RO faucet. (If you are already using it for a sprayer or soap dispenser, see step 1)***

Porcelain sinks are extremely hard and can crack or chip easily. Use extreme caution when drilling. Watts accepts no responsibility for damage resulting from the installation of faucet. Diamond tip bit recommended.



Step 1 Determine desired location for the RO faucet on your sink and place a piece of masking tape over where the hole is to be drilled. Mark the center of the hole on the tape.

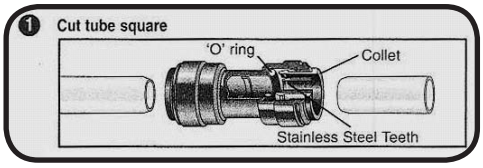
Step 2 Using a variable speed drill set on the slowest speed, drill a 1/8" pilot hole through both porcelain and metal casing of sink at the marked center of the desired location. Use lubricating oil or liquid soap to keep the drill bit cool (If drill bit gets hot it may cause the porcelain to crack or chip).

Step 3 Using a 1 ¼" diamond tip hole saw, proceed to drill the large hole. Keep drill speed on the slowest speed and use lubricating oil or liquid soap to keep the hole saw cool during cutting.

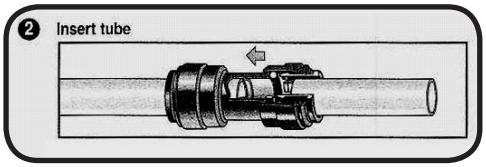
Step 4 After drilling, remove all sharp edges and make sure the surroundings of the sink are cooled before mounting the faucet.

How to use the Quick Connect Fittings

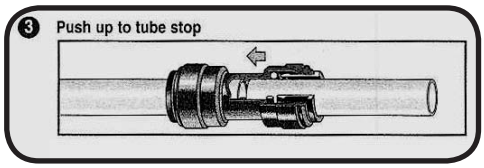
To make a connection, the tube is simply pushed into the fitting. The unique locking system holds the tube firmly in place without deforming it or restricting flow. Use the steps below in reference to any quick connect tube connections.



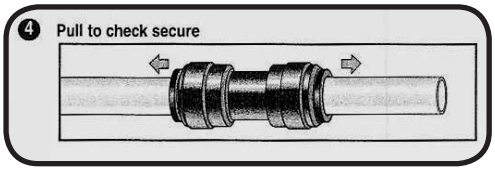
It is essential that the outside diameter be free of score marks and that burrs and sharp edges be removed before inserting into fitting.



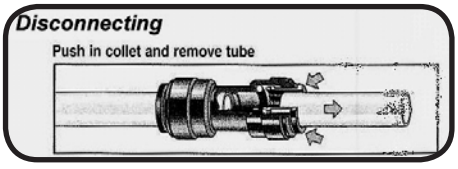
Fitting grips before it seals. Ensure tube is pushed into the tube stop.



Push the tube into the fitting, to the tube stop. The collet (gripper) has stainless steel teeth which hold the tube firmly in position while the O-ring provides a permanent leak proof seal.



Pull on the tube to check that it is secure. It is a good practice to test the system prior to leaving site and /or before use.



To disconnect, ensure the system is depressurized before removing the tube. Push in the collect squarely against face of fitting. With the collet held in this position, the tube can be removed. The fitting can then be reused.

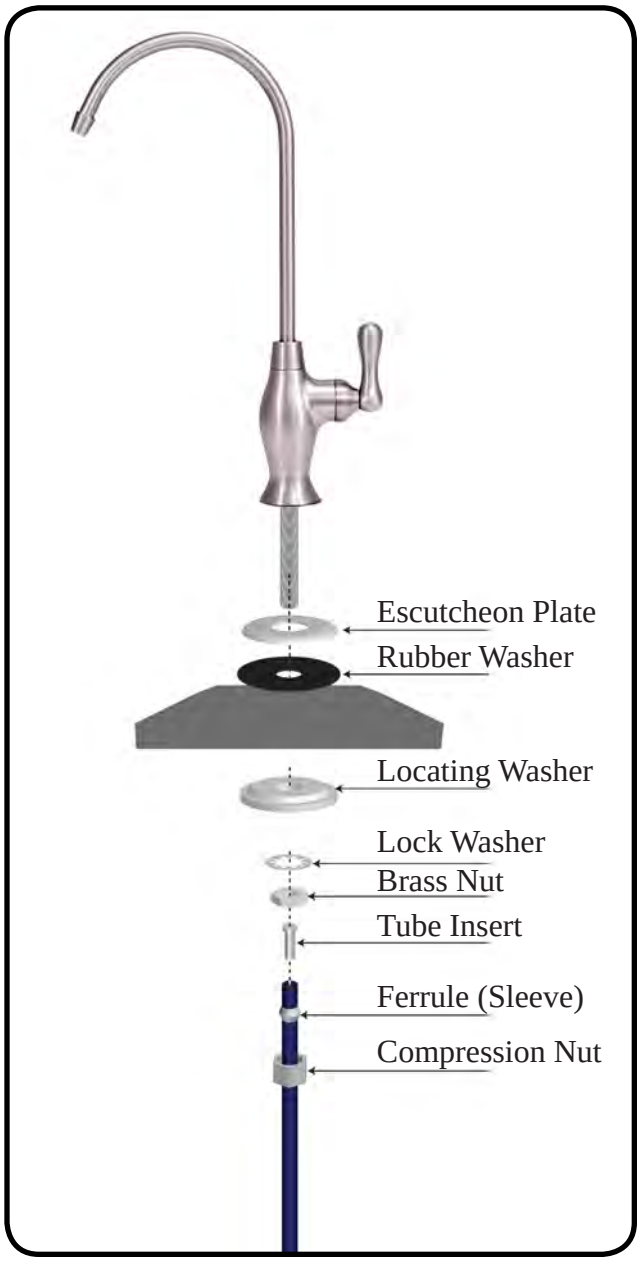
Faucet Installation

Step 5 Place the escutcheon chrome plate and the black rubber washer on the faucet shank. (Parts found in faucet parts bag).

Step 6 Insert the faucet shank through the hole in sink and let it rest on the sink top.

Step 7 From the underside of the sink, slide on the locating washer, lock washer and brass nut onto the shank. Check orientation of faucet then tighten brass nut securely.

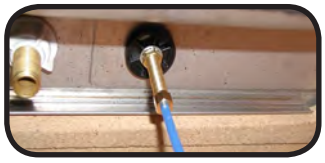
This faucet provides an electronic monitor that will tell you when it is time to replace the filters in your water treatment device. The light indicator on the handle will flash blue for the life of the filter, turning red once the life of the filter has been reached. This can occur after six months of use, or sooner for heavy water usage. The battery life is expected to last one year, however, under heavy use the battery may need to be replaced sooner. For replacement, look for battery number CR2032 (Watts p/n:116080) which should be available at your local battery store or contact Premier at 800-752-5582. You may also order online at www.wattspremier.com.



Connecting to the Faucet

Step 8 Locate the blue 1/4" tube attached to the RO module labeled "Faucet". Remove a brass nut, plastic sleeve and brass insert from the parts bag. To assemble, place the brass nut on the blue tube first, then the sleeve (small tapered end of sleeve must point to the end of tube) and then push the brass insert all the way into the end of the tube. (See Picture)

Step 9 Insert the blue tube into the end of the faucet shank and use a wrench to tighten the brass nut securely.



Adapt-a-Valve Installation

Water supply line to the system must be from the cold water supply line only. Hot water connection is used for rinse water return and must be connected for system to function correctly.

Verify contents prior to installation:

(2) - Plastic Adapt-a-Valve with black collet
(2) - Brass Adapter no washer
(2) - Brass Adapter with black washer
(2) - White rubber washer

3/8" Configuration
(With Brass Fittings)
*** Insert White Washer**

1/2" Configuration
(Without Brass Fittings)

Hot Supply **Cold Supply**

WARNING: **Do not use Teflon tape with the Adapt-a-Valve.**

Step 10 Turn off the cold and hot water supply to the faucet by turning the angle stop valves completely off. Open cold and hot water sink faucet to relieve pressure.

Step 11 Choosing the configuration that fits your plumbing, attach the adapt-a-valves as illustrated in the photos above.

TIPS: **Make sure that the black collet is installed in to the 1/4" opening on the Adapt-a-valve. Don't forget to install the white compression washer with the 3/8" configuration. Brass adapter (A) does not need to be tightened with a wrench, only finger tight.**

Reverse Osmosis Module Mounting

Step 12 Determine best location for the RO module to be mounted to allow for future system maintenance. Using the mounting holes on the bracket, mark the location for the mounting screws on the cabinet wall under the sink. In the parts bag, locate the two self tapping screws. Using an electric drill with a Phillips bit, screw them into the cabinet at the marked location. Hang the module on the screws using the mounting holes in the bracket

Connect the Green and Red Tubing

Step 13 In the parts bag locate the 1/4" green tubing. Insert one open end of the green 1/4" tube into the open 1/4" quick connect fitting on the **COLD** water feed adapta-a-valve making sure the tube is pushed in all the way to the tube stop. Repeat the procedure to connect red tubing attached to the RO module to connect to the hot water, return adapt-a-valve.

In the parts bag locate two 3/8” male stem adapters and insert them into the upper ports on the ESOV as pictured in the photos below.

Green Tube Connection (From Adapt-a-Valve to Pump)

Step 14 Insert the open end 1/4” green tube from the Adapt-a-Valve into the 1/4” open end of the booster pump quick connect union. Make sure the tube is pushed in all the way to the tube stop.

Green Tube Connection (From RO System to ESOV - Electronic Shut-off Valve)

Step 15 Insert the 1/4” green tube from the RO module into the 1/4” open end of the ESOV assembly quick connect union. Make sure the tube is pushed in all the way to the tube stop.

Blue Tube Connection (From RO System to ESOV - Electronic Shut-off Valve)

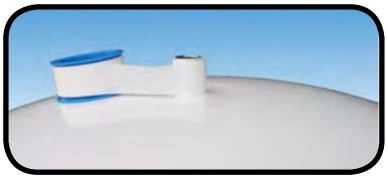
Step 16 Insert the 1/4” blue tube from the RO System into the 1/4” open union of the ESOV - pump side. Make sure the tube is pushed in all the way to the tube stop.

Blue Tube Connection (ESOV - Electronic Shut-off Valve)

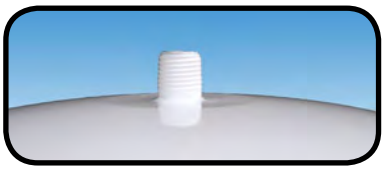
Step 17 In the parts bag, locate the 1/4” blue tubing. Insert one end of the 1/4” blue tube into the open 1/4” union of the ESOV.

Tank Ball Valve Installation

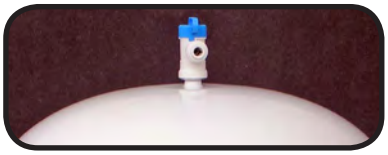
Step 18 Teflon tape must be applied in a clockwise direction. Wrap (7 to 12 turns) around the male pipe threads (MPT) on the stainless steel fitting on top of the tank.



Step 19 Thread the quick connect ball valve (supplied in the parts bag) onto the stainless steel connector on the tank.



Note: Do not over-tighten plastic connections.



Blue Tube Connection (From The ESOV To TANK)

Step 20 Position tank in desired location, stand it upright or lay it on its side (using the black plastic stand included). Insert the blue 1/4" tube from the ESOV into the quick connect fitting on the tank ball valve. Make sure the tube is pushed in all the way to the tube stop (see page 9 for quick connect fitting use directions).

Note: Set the blue ball valve knob in-line with the blue tube, this is the "open" position.

Congratulations!

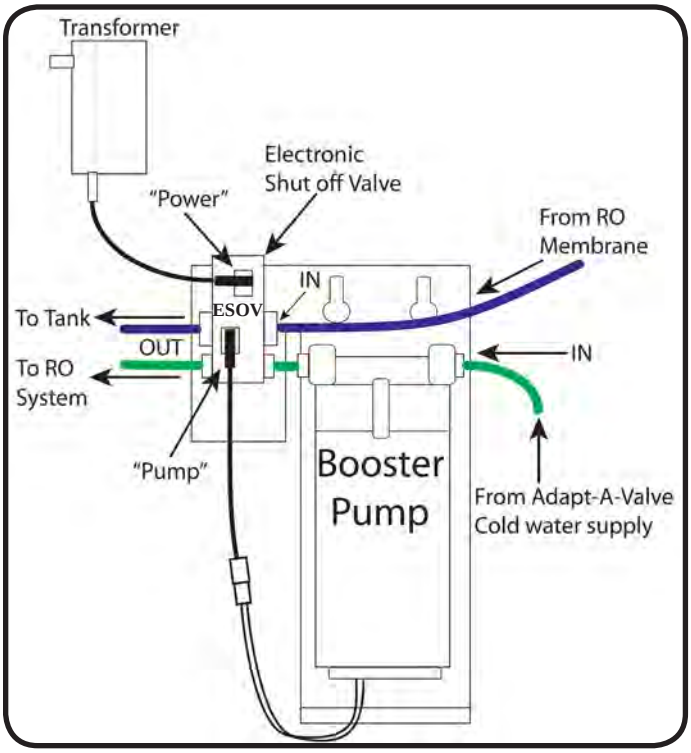
You have completed the installation of your new Reverse Osmosis system.

Please Follow the Startup Instructions.

Start up Instructions

Warning: To prevent the possibility of electrical shock, clean up any water on cabinet floor and dry all water from outside of RO unit.

Step 1 Turn on the incoming hot **and** cold water angle stop valves.
Turn both of the adapt-a-valves on and check the system for leaks and tighten fittings as necessary.



Note: Check daily over the next week to ensure no leaks are present.

Step 2 Plug the (24 volt) transformer power cord connector into the ESOV as pictured.

Step 3 Plug the transformer into the electrical outlet under the sink.

Step 4 Ensure ball valve on tank is open.

Step 5 Open the RO faucet and leave it open until water begins to drip. Then close the faucet.
The tank will take between 2 - 4 hours to fill.

Note: ***If no water comes out of the RO faucet after a few minutes check the power outlet! It is possible that the power outlet you used for the RO unit is controlled by the garbage disposal switch. To test - Unplug the garbage disposal and flip the garbage disposal switch to "on" . If the RO pump turns on and water starts to drip out of the RO faucet you will need to connect the system to a different power outlet socket.***

Step 6 After the tank has filled once, open the RO faucet and drain the tank.

Note: Water may be cloudy or milky due to air in the system and carbon particles flushing out of the final polishing filter. This condition will resolve itself after flushing a couple of tanks of water.

Step 7 Complete step #6 two more times. The process of flushing the system first three times should take about one day to complete. The fourth tank can be used for drinking water.

Note: ***Flushing of the tank 3 times is only necessary during the initial startup and after replacing the membrane.***

Changing The Filter Cartridges

Your RO module is equipped with valved heads which will automatically turn off the water supply to each filter when the filter is released, thus you do not need to turn off the incoming water supply at the Adapt-a-Valve. The RO faucet must be off when filters are replaced. To make the removal of the filter cartridges easier, the heads & cartridges may be swiveled up to 90 degrees as shown in the pictures below.

6 Month System Maintenance

Replace: √ One sediment filter (Red Label P/N: 105311)
√ One carbon pre-filter (Yellow Label P/N: 105351)

Annual Maintenance -(Sanitization Recommended See PG.13)

Replace: √ One sediment filter (Red Label P/N: 105311)
√ One carbon pre-filter (Yellow Label P/N: 105351)
√ One carbon post-filter (Blue Label P/N: 105341)

Tip: ***This is a good time to check the air pressure in your storage tank. For instructions please see page 14.***

Note: ***Flush first tank full after completing the annual maintenance.***

Step 1 Place a towel under the RO module to catch any excess water that may drip out from the filters during the changeover.

Step 2 **To remove a filter cartridge:** Push & hold the button on the valved head above the filter. Pull cartridge downward (from the head) to remove. Release button and discard old filter.

Step 3 **To install a filter cartridge:** Remove the seal cap and insert the cartridge into the valved head until you hear an audible “click” (the button does not need to be pressed to install new filters).

Note: ***To reset the electronic monitor during replacement of filters, simply pry out the black rubber battery drawer from the faucet handle using a flat head screwdriver, wait a few moments and reinsert.***

This reverse osmosis system contains a replaceable component (the RO membrane) which is critical to the efficiency of the system. Replacement of this reverse osmosis membrane should be with one of identical specifications as defined by Premier to assure the same efficiency and contaminant reduction performance.

Membrane Replacement (2 - 5 Years)

Replace: √ One Membrane (50 GPD Green Label P/N: 105331)

Membranes have a life expectancy between 2 and 5 years, depending on the incoming water conditions and the amount the RO system is used. This reverse osmosis membrane is critical for effective reduction of total dissolved solids (TDS). The product water should be tested periodically to verify that the system is performing satisfactorily.

Normally, a membrane would be replaced during a semiannual or annual filter change. However, if at any time you notice a reduction in water production or an unpleasant taste in the reverse osmosis water, it could be time to replace the membrane. Premier recommends replacing the membrane when TDS reduction falls below 75%.

A water sample may be sent to Premier for a free diagnosis of your membranes performance. To send a water sample, use 2 clean containers and fill 1/2 cup of tap water in one container and 1/2 cup of RO water in 2nd container. Clearly label each sample. Send the samples to the address listed on the cover of this manual attention “Water Samples”. Premier will test the water and mail or call you with the results.

Annual Sanitization

Note: ***Sanitization procedure must be performed before a filter change.***

Step 1 Turn off the water supply to your RO system, unplug transformer and open the RO faucet to drain the storage tank.

Step 2 Disconnect the blue tube from the ball valve on the storage tank (see page 6 for quick connect fitting use instructions).

Step 3 Using a clean eye dropper insert ½ teaspoon of hydrogen peroxide or common household bleach into the blue tube. This will flow into the tank once water is turned back on to unit. Reattach blue tube to the ball valve. Follow start up procedure and drain two full tanks of water. Replace carbon Post-filter.

Procedure for Extended Non-Use (More than 2 months)

Turn off the cold water supply to your RO system, unplug power transformer from electrical outlet and open the RO faucet to drain the storage tank. Once the storage tank is empty, remove all filter cartridges (order not important), place them into a sealed plastic bag and store in your refrigerator.

To Restart System:

Step 1 Reinstall all filters on to the RO unit. Filters are color coded to match the filter heads they snap in to. Refer to page 12 step three for cartridge installation procedure.

Step 2 Turn on the cold water supply to your RO system. Plug in the transformer, (Check frequently over the next 24 hours to ensure no leaks are present).

Note: ***If you have connected your RO system to a refrigerator / ice maker, make sure the ice maker is off (do not allow water to flow to the ice maker) until the tank has been allowed to completely fill.***

Step 3 Open the RO faucet and leave it open until water begins to trickle out (it will come out slowly).

Step 4 Close the RO faucet allowing the storage tank to fill with water. It may take 2 to 4 hours to fill the tank completely depending on the production capability of the membrane, local water temperature and water pressure.

Step 5 After the Tank has filled, open the RO Faucet to flush the tank completely. You will know that the tank is empty when the flow rate from the RO faucet is down to a trickle. The second tank can be used for drinking.

Check Air Pressure in the Tank

Important: ***Check air pressure only when tank is empty of water!***

Check air pressure in the storage tank when you notice a decrease in available water from the RO system. Air can be added with a bicycle pump using the schrader valve that is located on the lower side of the tank behind a blue plastic cap.

Step 1 Turn off the cold water supply to the RO and unplug transformer.

Step 2 Open the RO Faucet and allow water to drain from the tank until it is completely empty.

Tip: ***When water from the RO faucet slows to a trickle, with the faucet still in the open position, you may add air to the tank to purge any left over water, this will ensure that the tank is completely empty.***

Step 3 Once all water in the tank is purged, check air pressure using an air pressure gauge, it should read between 5 - 7 PSI. (Digital air pressure gauge is recommended) Pressurize tank using a bicycle tire pump if low. Follow start-up procedure on page 11.

TROUBLE SHOOTING

Problem	Cause	Solution
1. Low/Slow Production	Low Water Pressure	Make sure water supply is turned on and Adapta Valve is all the way open.
	Crimps in tubing	Check tubing and straighten or replace as necessary.
	Clogged pre-filters	Replace pre-filters.
	Fouled membrane	Replace membrane.
2. Milky colored Water	Air in system	Air in the system is a normal occurrence with initial start up of the RO system. This milky look will disappear during normal use within 1-2 weeks. If condition reoccurs after filter change, drain tank 1 to 2 times.
3. Water constantly running, unit will not shut off	Low water pressure	See #1 Above
	Crimp in supply tube	Check tubing and straighten or repair as necessary.
	High water pressure	Check incoming water pressure to make sure it does not exceed 80 psi. A pressure relief valve may be necessary.
	High pressure in Tank	Empty storage tank of water. Set tank air pressure between 5-7 psi. See previous page.
	Low Pressure in Tank	Use a Digital Air Gauge for best results. The empty tank pressure should be 5-7 psi. See page 14.
4. Noise / Water from faucet vent hole or noise from drain.	Crimp or restriction in drain line	Check tubing and straighten or repair as necessary. Straighten all drain lines. Clear blockage. Cut off any Excess tubing
	Drain tube clogged	Caused from dishwasher or garbage disposal. Disconnect the 3/8” black line at the drain, clean the 3/8” black line out with a wire, then reconnect. ***Blowing air through the line will not always remove the clog.***
5. Small amount of water in storage tank	System starting up	Normally it takes 2-4 hours to fill tank. Note: low incoming water pressure and/or temperature can drastically reduce production rate.
	Low water pressure	See #1 above.
	To much air in tank	Tank air pressure should be 5-7 psi when empty of water. If below 5 psi add air or bleed if above 7 psi. Check only when tank is empty of water. See previous page.
6. Water leaks from the filter / membrane cartridge.	Not properly seated	Re-insert the filter / membrane cartridge.
7. Low water flow from faucet	Check air pressure in tank	Use a Digital Air Gauge for best results. The empty tank pressure should be 5-7 psi. See page 14.

TECHNICAL & WARRANTY INFORMATION

Watts Premier Inc.
8716 W Ludlow Drive Suite #1
Peoria, AZ 85381

ZRO-Pure

System conforms to Standard 58 for specific claims

GENERAL USE CONDITIONS:

1. System to be used with municipal or well water sources treated and tested on regular basis to insure bacteriological safe quality. DO NOT use with water that is microbiologically unsafe or unknown quality without adequate disinfection before and after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
2. This system is acceptable for treatment of influent concentrations of no more than 27 mg/L nitrate and 3 mg/L nitrite in combination measured as N and is certified for nitrite/nitrate reduction only for water supplies with a pressure of 280 kPa (40 psig) or greater. If your water supply is under 40 psi Premier recommends the use of a RO booster pump for proper operation.

3. Operating Temperature:	Maximum: 100°F (40.5°C)	Minimum: 40° (4.4°)
4. Operating Water Pressure:	Maximum: 85 psi (6.0kg/cm2)	Minimum: 40 psi (2.8kg/cm2)
5. pH	2 to 11	

6. Maximum Iron present in incoming water supply must be less than 0.2 ppm.
7. Hardness of more than 10 grains per gallon (170 ppm) may reduce RO membrane life expectancy.
8. Recommend TDS (Total Dissolved Solids) not to exceed 1800 ppm.

RECOMMENDED REPLACEMENT PARTS AND CHANGE INTERVALS:

Note: Depending on incoming feed water conditions replacement time frame may vary.

Description		Change time Frame	Cost
Sediment Pre-filter:	#105311	6 Months	$ 9.95
Carbon Pre-filter:	#105351	6 Months	$15.95
Post Carbon filter	#105341	12 Months	$15.50
50 GPD R.O. Membrane:	#105331	2 to 5 years	$89.00

*** All Prices Subject to change without notice**

Concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ANSI 58. This system has been tested for the treatment of water containing pentavalent arsenic (also known as As (V), As (+5), or arsenate) at concentrations of 0.30 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual at the system inlet or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic, Please see the Arsenic Facts section of the Performance Data Sheet for further information

	Avg. In. (mg/L)	Avg. Eff. (mg/L)	% Reduction	pH	Pressure	Max Eff. mg/L	Inf. challenge concentration mg/L	Max Allowable concentration mg/L
Arsenic (Pentavalent)	.310	0.001	99.6%	7.24	50psi	0.002	0.30±10%	0.010 mg/L
Barium Reduction	9.2	0.08	99.0%	7.64	50psi	0.12	10.0±10%	2.0
Cadmium Reduction	0.031	0.0004	98.0%	7.49	50psi	0.0008	0.03±10%	0005
Chromium (Hexavalent)	0.30	0.002	99.0%	7.24	50psi	0.004	0.03±10%	0.1
Chromium (Trivalent)	0.30	0.001	99.0%	7.64	50psi	0.002	0.03±10%	0.1
Copper Reduction	3.2	0.02	99.0%	7.40	50psi	0.04	3.0±10%	1.3
Cysts	92,000#/ml	3 #/ml	99.99%	7.44	50psi	18	minimum 50,000/mL	N/A
Fluoride Reduction	8.7	0.19	97.0%	7.24	50psi	0.3	8.0±10%	1.5
Lead Reduction	0.15	0.002	98.8%	7.39	50psi	0.005	0.15±10%	0.0107
Nitrate	27	3.8	86.0%	7.24	50psi	4.3	27.0 ±10%	10.0
Nitrite	3.1	0.41	86.0%	7.24	50psi	0.46	3.0 ±10%	1.0
Nitrate + Nitrite	30	4.2	86.0%	7.24	50psi	4.8	30.0 ±10%	10.0
Radium 226/228	25pCi/L	5pCi/L	80.0%	7.24	50psi	5pCi/L	25pCiL±10%	5pCiL
Selenium	94.85	<0.2	97.0%	7.24	50psi	<0.2	0.10±10%	0.05
TDS	741	22	97.0%	7.28	50psi	26.0	750±40mg/L	187
Turbidity	11.3	0.1	99.0%	7.43	50psi	0-1	11±1mg/L	0.5NTU

Depending on water chemistry, water temperature, and water pressure Premier's R.O. Systems production and performance will vary.

REFER TO OWNER'S INSTALLATION/SERVICE MANUAL FOR FURTHER MAINTENANCE REQUIREMENTS AND WARRANTY INFORMATION.

Phone: (480) 675-7995 Fax: (623) 866-5666 Email: wpmail@watts.com

Arsenic Fact Sheet

Arsenic (As) is a naturally occurring contaminant found in many ground waters. Arsenic in water has no color, taste or odor. It must be measured by an arsenic test kit or lab test.

Public water utilities must have their water tested for arsenic. You can obtain the results from your water utility contained with in your consumer confidence report. If you have your own well, you will need to have the water evaluated. The local health department or the state environmental health agency can provide a list of test kits or certified labs.

There are two forms of arsenic: pentavalent arsenic (also called As (V), As (+5)) and trivalent arsenic (also called As (III), As (+3)). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Although both forms of arsenic are potentially hazardous to your health, trivalent arsenic is considered more harmful than pentavalent arsenic.

RO systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) where it does convert trivalent arsenic to pentavalent arsenic, may not convert all the trivalent arsenic in to pentavalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

This Premier reverse osmosis system is designed to remove up to 98% of pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. Under laboratory standard testing conditions, this system reduced 0.30 mg/L (ppm) pentavalent arsenic to under 0.010 mg/L (ppm) (the USEPA standard for drinking water). Actual performance of the system may vary depending on specific water quality conditions at the consumer's installation. In addition to the independent laboratory standard testing conditions Premier has conducted additional field testing on our reverse osmosis units to determine trivalent arsenic reduction capabilities. Based upon Premier field testing, it has been determined that the RO units are capable of reducing up to 67% of trivalent arsenic from the drinking water.

This reverse osmosis system contains a replaceable component critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to ensure the same efficiency and contaminant reduction performance. Specific component identification and ordering information can be found in the maintenance section of this manual, by phone at 1-800-752-5582 or online at www.wattspremier.com

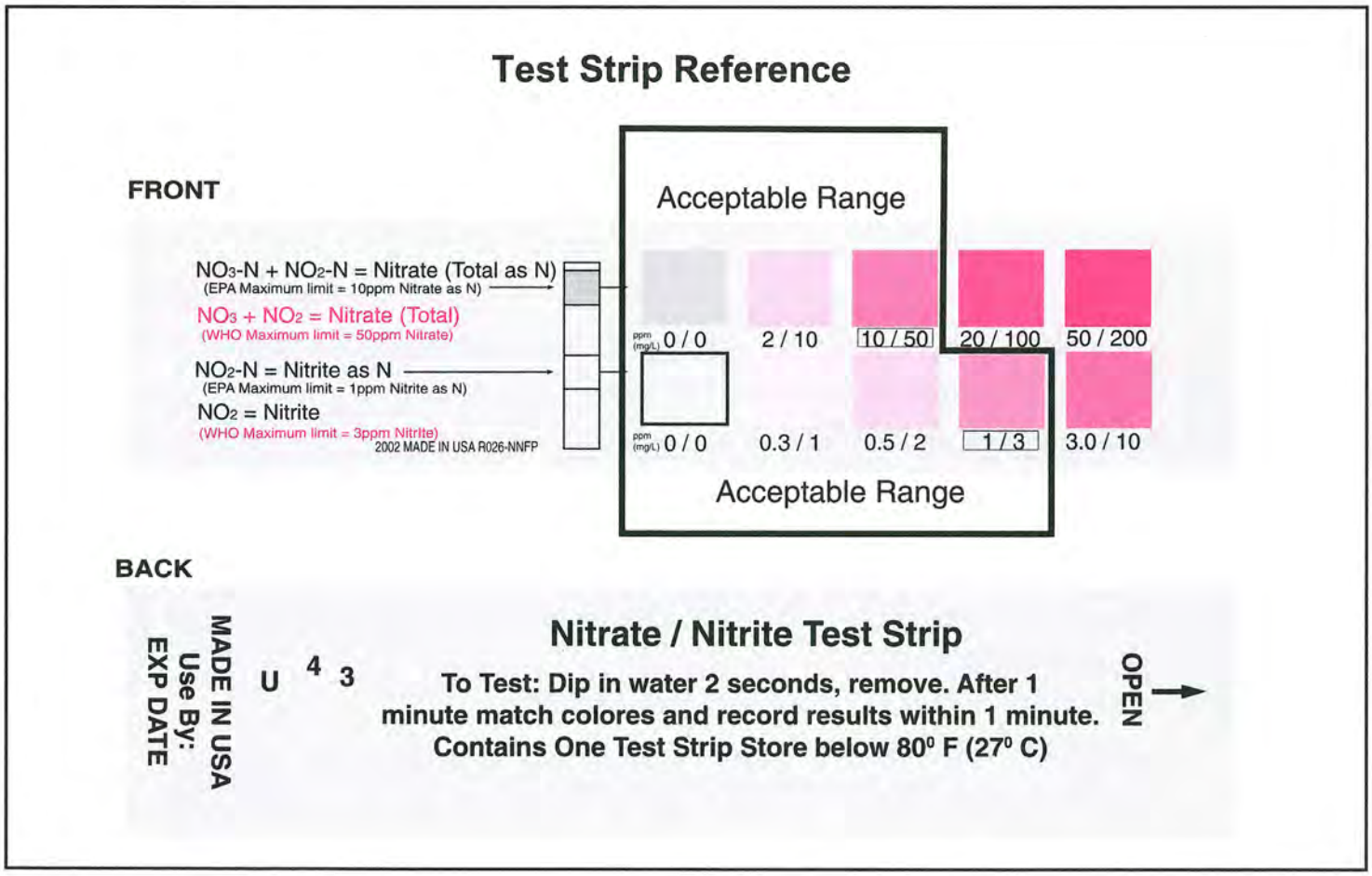
California Proposition 65 Warning

WARNING: this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (Installer: California law requires that this warning be given to the consumer). For more information: www.wattsind.com/prop65.

Nitrate / Nitrite Test Instruction

This Reverse Osmosis water filtration system has been designed to remove Nitrates and Nitrites from your drinking water. This unit has also been tested and certified by NSF International the leading not-for-profit certification agency for the reduction of incoming concentrations of not more than 27 mg/L nitrate and 3 mg/L nitrite to below safe drinking water levels with a minimum water pressure of 40psi (280kPa). In order for this water treatment device to operate as designed, it is important that it is properly installed and maintained as detailed in the installation and operation manual. The installation of a booster pump to this reverse osmosis unit is suggested in the event your incoming water pressure is below 40 psi.

It is recommended that you periodically test the drinking water coming from your reverse osmosis unit to ensure it continues to work properly. In order to ensure proper reduction of Nitrates and Nitrites from your drinking water, a personal nitrite/nitrate test strip has been included for you to use. Fill a clean glass with RO water and submerge the test strip for 2 seconds. Remove the test strip from the water and wait one minute. **Compare the colors on the test strip that you submerged in the water against the color chart on the packaging of the test strip**. The levels obtained during your test should be below the regulated levels of 10.0 mg/L of Nitrate and 1.0 mg/L of Nitrite.


Test Strip Reference
FRONT
Acceptable Range
NO3-N + NO2-N = Nitrate (Total as N)
(EPA Maximum limit = 10ppm Nitrate as N)
NO3 + NO2 = Nitrate (Total)
(WHO Maximum limit = 50ppm Nitrate)
NO2-N = Nitrite as N
(EPA Maximum limit = 1ppm Nitrite as N)
NO2 = Nitrite
(WHO Maximum limit = 3ppm Nitrite)
2002 MADE IN USA R026-NNFP
ppm (mg/L) 0 / 0
2 / 10
10 / 50
20 / 100
50 / 200
ppm (mg/L) 0 / 0
0.3 / 1
0.5 / 2
1 / 3
3.0 / 10
Acceptable Range
BACK
MADE IN USA
Use By:
EXP DATE
U 4 3
Nitrate / Nitrite Test Strip
To Test: Dip in water 2 seconds, remove. After 1 minute match colores and record results within 1 minute.
Contains One Test Strip Store below 80° F (27° C)
OPEN

For questions, additional test strips or replacement parts for your reverse osmosis, please call us at 800-752-5582

Other Products from Premier

Premier has other fine water filtration products and accessories to enhance your water and to compliment your existing RO System. Listed on the next several pages are only a few of the items we offer. Visit our web site at www.wattspremier.com or call our Customer Service Representatives at 1-800-752-5582 (inside USA) 1-480-675-7995 (outside USA) for more products.

Premier sells a filter change kit which includes all replacement filters needed.
Call 1-800-752-5582 or buy on-line at www.wattspremier.com.

Top Mount Faucets

These attractively designed faucets feature a long reach spout to compliment all styles of kitchen decor. The unique top mount design allows for easy above counter installation. The Monitored version of this faucet has an LED light that turns red to notify you for filter replacement. *Tubing Included!*

Part No.	**116091 - Chrome (Non-Monitored)**	***$47.95 each**
	116095 - Brushed Nickel (Non-Monitored)	***$52.95 each**
	116094 - Chrome (Monitored)	***$57.95 each**
	116093 - Brushed Nickel (Monitored)	***$62.95 each**

Reverse Osmosis Ice Maker Connection Kit

Connect your RO-Pure system to your refrigerator!
The ice maker kit includes parts needed for typical installation, includes; 30 feet of 3/8” tubing, an in-line ball valve and fittings.

Part No. 500010 ***$ 16.95/ea**

Premier Hot Water Recirculation System

Bring convenience and savings to your home, giving you hot water instantly at every faucet when you need it. This unique product is easy to install and not only provides you with the convenience of hot water when you need it, but also saves an average of over 15,000 gallons per year!

Part No. 500800 *$**229.99 each**

ZRO-PURE Six Month Filter Kit

Compatible with the Premier ZRO-PURE Reverse Osmosis filtration system. This kit includes one sediment filter and one 5 micron carbon pre filter.

Part No. 531102 ***$24.95/ea**

Pocket Total Dissolved Solids (TDS) Monitor

Test water electronically to verify reverse osmosis membrane effectiveness. Carrying case included.

Part No. 273001 ***$39.95/ea**

All prices subject to change without notice.

Removing chlorine from your shower

Special Chlorgon & KDF media – More effective then carbon medias with hot water applications in the removal of the following.

- √ Free Chlorine (CL-)
- √ Combined Chlorine (Sodium Hypochlorite)
- √ Hydrogen Sulfide (Rotten egg smell)
- √ Plus, its pH balanced.
- √ Iron oxide (rust water)
- √ Dirt, sediment
- √ Odors

Deluxe Shower Handle with Built in Filter
5-Way Massaging Spray
72” Reinforced Hose
High Strength Bracket
Triple Plated Finish
Reversible Filter Cartridge (Model HHC)
Cartridge Life Rating: 3 months

Part No. 107070	**WHITE**	***$38.95**
Part No. 107091	**CHROME**	***$44.95**
Part No. 107092	**GOLD**	***$44.95**

Replacement filters 2PK

Part No. 107075 *$15.95/pk

Shower Falls Deluxe Shower Handle with Built in Filter
Curved Ergonomic Shower Handle
Filter Handle Extension
Dual Swivel Adjustment
Ultra Deluxe 5 Way Massaging Spray
72” Reinforced Hose
Chrome Plated Brass Bracket & Swivel Ball Extension
Triple Plated Finish
Reversible Filter Cartridge (Model HHC)
Cartridge Life Rating: 3 months
Part No. 107095 CHROME *$55.95

Replacement filters 2PK

Part No. 107075 *$15.95/pk

All-In-One reversible High-Flow Filter

Deluxe 5-Way Massaging Spray
Soft-Touch Adjustment Pads
Anti-Scaling Spray Nozzle
High Strength Housing
Triple Plated Finish
Cartridge Life Rating: 6 months
Part No. 107098 White/Chrome *$39.95

Replacement filter

Part No. 107080 *$13.95/ea

Visit our website www.wattspremier.com for a larger selection.

***All prices subject to change without notice.**

WARRANTY REGISTRATION

Thank you for selecting Premier for your water filtration needs.

4 Ways to Register

1. On-line at www.wattspremier.com

Register your product on-line and receive a 5% discount on your next on-line order, Plus receive reduced shipping.

2. Call in your information 1-800-752-5582

Call and we will enter your information.

3. Fax in your information 623-866-5666

Fax this form directly to us.

4. Mail in the information.

Please complete the form below. Mail to: **Watts Premier**
8716 W Ludlow Dr. Suite #1
Peoria, AZ 85381

Registering will insure you receive Watts

FREE

Filter Reminder Notice

Premier Inc. is concerned for the safety of your personal information. Premier collects personal information when you register with Premier. This information is stored in our data base and we do not rent, sell, or share personal information with other people or nonaffiliated companies. We reserve the right to send you certain types of communications such as direct mail, email, or by telephone relating to our products or products that you have purchased. We limit access to your personal information to those employees who will directly provide you with services or products in order to do their jobs. We want to offer you four ways to communicate with us. 1.Online, 2.Fax, 3.Telephone, and 4. Mail the form below. By registering your product you will receive the full benefit of our warranty. Premier will also send you a semiannual filter change reminder beginning six months from date of installation. To insure the highest quality of your water, filters should be replaced every 6 months. If you have any questions or comments please give us a call at 1-800-752-5582 M-F 8:00am -5:00pm MST.

Iowa Department of Public Health - Sales in Iowa require this to be completed, signed and returned. These signatures will be retained on file for two years.

First Name:_____ Last Name:_____

Address: _____ City: _____

State: _____ Zip Code: _____

Country: ☐ USA ☐ CANADA ☐ MEXICO ☐ OTHER _____

Phone # _____-_____ -_____ Email Address: _____

Date of Purchase: _____ Date of Install: _____

Installed By: ☐ SELF ☐ Plumbing Professional Where Purchased: _____

Model Number: _____ Serial Number: _____ - _____
XXXXX - XXXXXX

Watts Premier, Inc. 8716 W Ludlow Dr. Suite #1 Peoria, AZ 85381
Phone: 800-752-5582 www.wattspremier.com Fax: 623-866-5666

WARRANTY REGISTRATION

Please Fill out and keep for your Records

First Name:_____ Last Name:_____

Address: _____ City: _____

State: _____ Zip Code: _____

Country: ☐ USA ☐ CANADA ☐ MEXICO ☐ OTHER _____

Phone # _____-_____ -_____ Email Address: _____

Date of Purchase: _____ Date of Install: _____

Installed By: ☐ SELF ☐ Plumbing Professional Where Purchased: _____

Model Number: _____ Serial Number: ____ - _____
xxxxx - xxxxxx

Iowa Department of Public Health - Sales in Iowa require this to be completed, signed and returned. These signatures will be retained on file for two years.

Insert into envelope and return to Premier

Watts Premier
8716 W Ludlow Drive Suite #1
Peoria, AZ 85381

Service Record

Model Number:_____ Serial Number:_____

Date of Purchase:_____ Date of Install:_____ Installed by:_____

Date	Sediment Filter (6 months)	Carbon Pre-Filter (6 months)	Membrane (2-5 years)	Carbon Post-Filter (12months)	

NOTES:

Limited Warranty

What your Warranty Covers:
If any part of your Premier Reverse Osmosis System is defective in workmanship (excluding replaceable filters and membranes), return unit after obtaining a return authorization (see below), less tank, within 1 year of original retail purchase, Premier will repair or, at Premier's option, replace the system at no charge.

How to obtain Warranty Service:
For warranty service, call 1-800-752-5582 for documentation and a return authorization number. Once the return authorization number has been created, ship your Reverse Osmosis unit (less tank) to our factory, freight and insurance prepaid, with proof of date of original purchase. Include a note stating the problem experienced and include your name, address and your return authorization number. No returns will be accepted with out the proper return authorization number. Premier will repair it, or replace it, and ship it back to you prepaid.

What this warranty does not cover:
This warranty does not cover defects resulting from improper installation, (contrary to Premier's printed instructions), from abuse, misuse, misapplication, improper maintenance, neglect, alteration, accidents, casualties, fire, flood, freezing, environmental factors, water pressure spikes or other such acts of God.

This warranty will be void if defects occur due to failure to observe the following conditions:

1. The Reverse Osmosis System must be hooked up to a potable municipal or well cold water supply.
2. The hardness of the water should not exceed 10 grains per gallon, or 170 ppm.
3. Maximum incoming iron must be less than 0.2 ppm.
4. The pH of the water must not be lower than 2 or higher than 11.
5. The incoming water pressure must be between 40 and 85 pounds per square inch.
6. Incoming water to the RO cannot exceed 105 degrees F (40 degrees C.)
7. Incoming TDS/Total Dissolved Solids not to exceed 1800 ppm.
8. Do not use with water that is micro biologically unsafe or of unknown quality without adequate disinfection before or after the system.

This warranty does not cover any equipment that is relocated from the site of its original installation.
This warranty doe not cover any charges incurred due to professional installation.
This warranty does not cover any equipment that is installed or used outside the United States of America and Canada.

LIMITATIONS AND EXCLUSIONS:

Premier WILL NOT BE RESPONSIBLE FOR ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. PREMIER WILL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING TRAVEL EXPENSE, TELEPHONE CHARGES, LOSS OF REVENUE, LOSS OF TIME, INCONVENIENCE, LOSS OF USE OF THE EQUIPMENT, AND DAMAGE CAUSED BY THIS EQUIPMENT AND ITS FAILURE TO FUNCTION PROPERLY. THIS WARRANTY SETS FORTH ALL OF PREMIER'S RESPONSIBILITIES REGARDING THIS EQUIPMENT.

OTHER CONDITIONS:

If PREMIER chooses to replace the equipment, Premier may replace it with reconditioned equipment. Parts used in repairing or replacing the equipment will be warranted for 90 days from the date the equipment is returned to you or for the remainder of the original warranty period, whichever is longer. This warranty is not assignable or transferable.

YOUR RIGHTS UNDER STATE LAW:
Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply. This warranty gives you specific legal rights, and you may have other legal rights which vary from state to state.